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NPIC/R-71/64
February 1964

PHOTOGRAPHIC INTERPRETATION REPORT

SA-1 SAM SITES, MOSCOW, USSR,
SOUTHWEST QUADRANT

Declass Review by NIMA/DOD



CIA



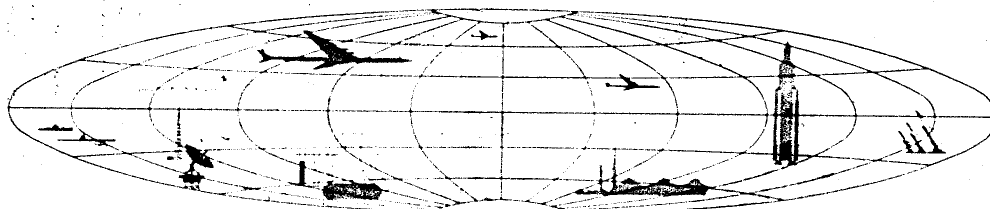
DIA

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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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PHOTOGRAPHIC INTERPRETATION REPORT

SA-1 SAM SITES, MOSCOW, USSR,
SOUTHWEST QUADRANT

NPIC/R-71/64

February 1964

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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NPIC/R-71/64

PREFACE

In order to provide a foundation for the continuing analysis of Moscow air defenses, a detailed survey of KEYHOLE photography of SA-1 SAM sites surrounding the city has been undertaken under NPIC Project JN-212/62. This report, a partial answer to CIA requirement C-REB-80375, covers the sites in the southwest quadrant (Figure 1). The sites in the northeast quadrant are covered in NPIC/R-64/64. The sites in the southeast and the northwest quadrants are in preparation.

For each site a photograph is provided, significant changes since the first KEYHOLE coverage are noted, and all KEYHOLE photographic coverage through [REDACTED] is listed. All map references are to US Air Target Charts (USATC), Series 200, second edition, unless otherwise indicated.

25X1D

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NPIC R-71 04

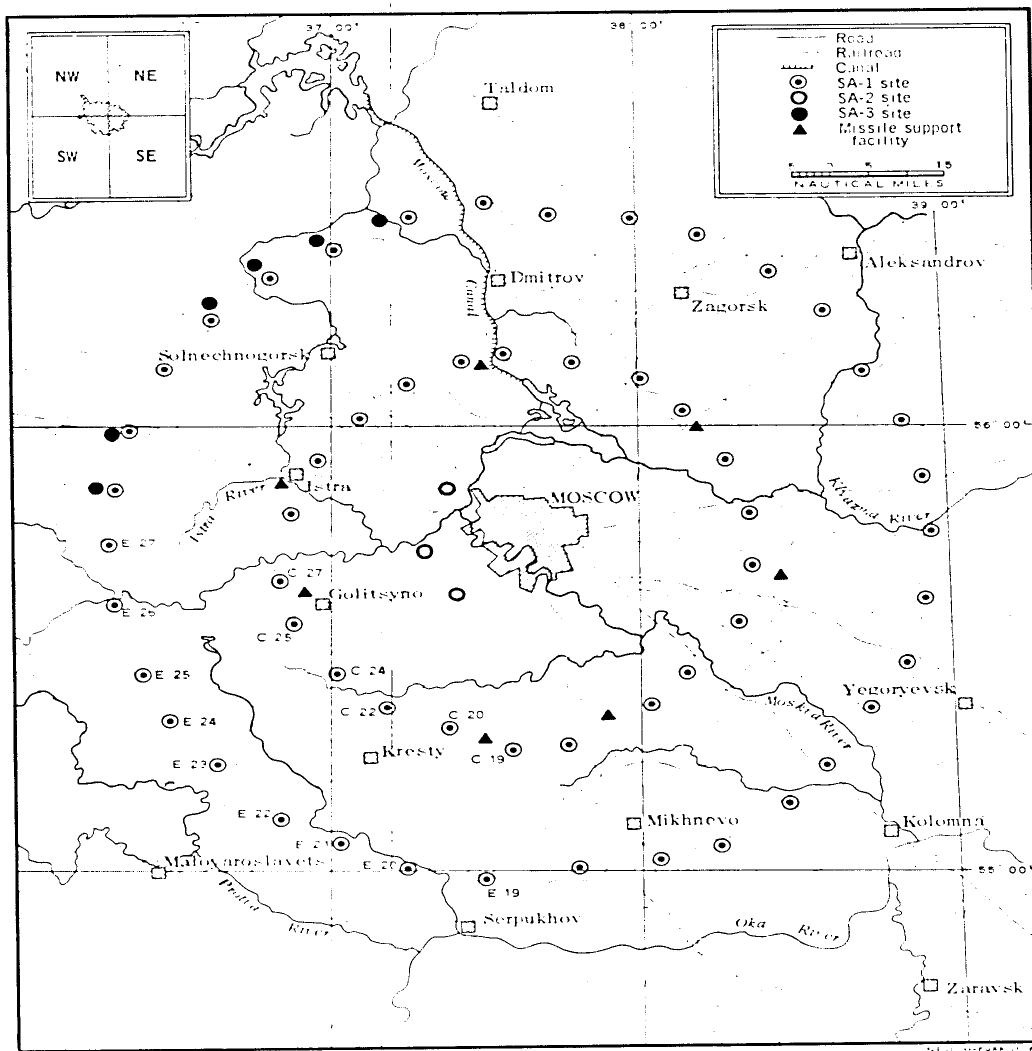


FIGURE 1. LOCATION MAP.

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NPIC R-71/64

25X1D

25X1D

MOSCOW SAM SITE C19-1

25X1D

25X1A

BE No: [REDACTED]
NPIC Target No: 0167-121-G
Coords: 55-17N 37-34E
Map Ref: DIA Sheet 0167-5HL, 2d ed, Apr 63/S
First KEYHOLE coverage: [REDACTED]

Status then: Identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. At that time, a secured area (Figure 2, Item 1) was observed containing nine drive-through missile checkout storage buildings, each 310 by 100 feet. No changes in the site were observed between [REDACTED]

25X1D

25X1D

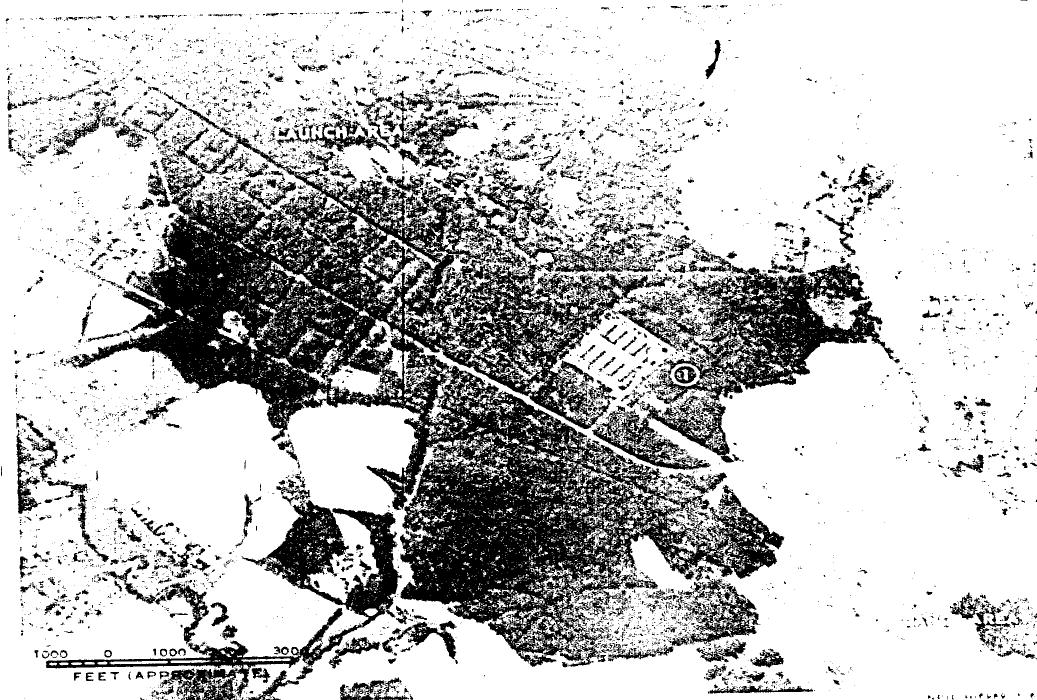


FIGURE 2. MOSCOW SAM SITE C19-1, [REDACTED]

- 1 -

25X1D

TOP SECRET RUFF

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25X1D

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TOP SECRET RUFF

NPIC/R-71-64

25X1D

25X1D

25X1A

MOSCOW SAM SITE C20-1

BE No: [REDACTED]

NPIC Target No: 0167-121-11

Coords: 55-20N 37-22E

Map Ref: DIA Sheet 0167-5HL, 2ded, Apr 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] and [REDACTED] (Figure 3).

25X1D



FIGURE 3. MOSCOW SAM SITE C20-1, [REDACTED]

25X1D

- 3 -

TOP SECRET RUFF

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25X1D

Approved For Release 2001/08/20 : CIA-RDP78T05439A000300230071-9

TOP SECRET RUFF

NPIC R-71 64

25X1A

MOSCOW SAM SITE C-22-1

BE No: [REDACTED]
NPIC Target No: 0167-121-1

Coords: 55-22N 37-10E

Map Ref: DIA Sheet 0167-4HL, 2 ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

Status: then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 4).

25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

25X1D

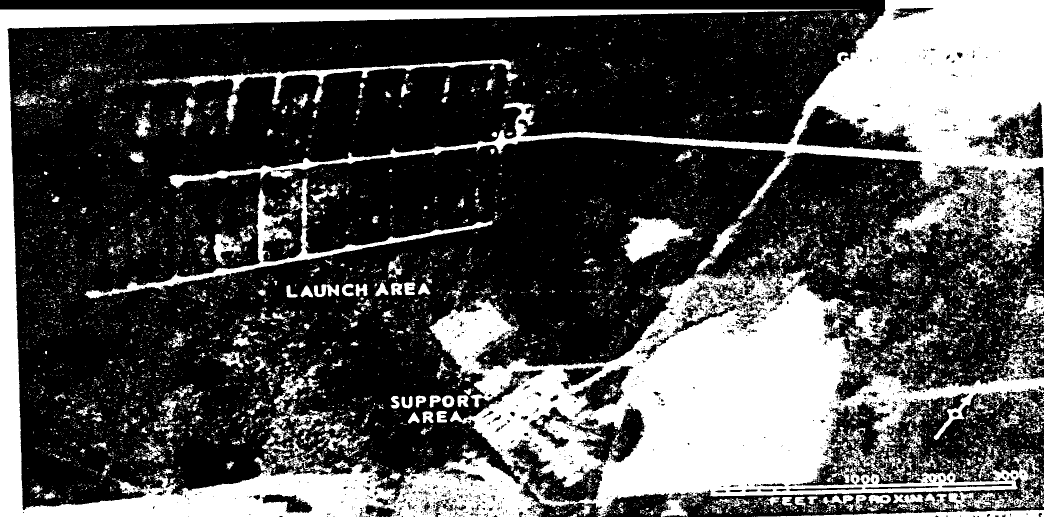


FIGURE 4. MOSCOW SAM SITE C-22-1. [REDACTED]

- 5 -

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC R-71 64

25X1A

MOSCOW SAM SITE C24-1

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-121-J
Coords: 55-27N 36-59E
Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)
First KEYHOLE coverage: [REDACTED]
Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete, although the support area was not then visible. The entire site was first visible in [REDACTED]. No other changes in the site were observed between [REDACTED] (Figure 5).

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

25X1D

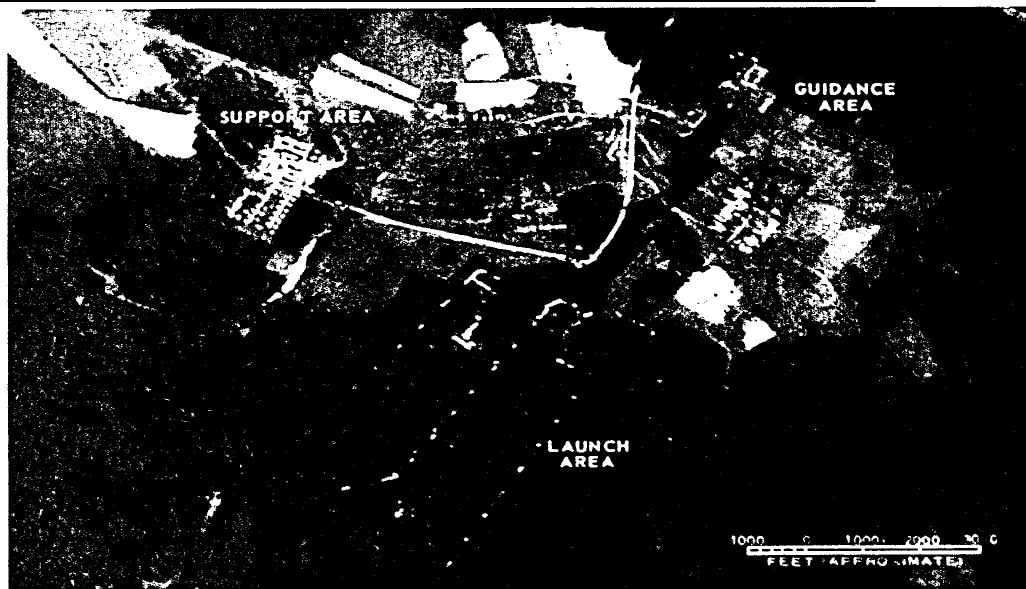


FIGURE 5 MOSCOW SAM SITE C24-1, [REDACTED]

- 7 -

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC R-71 64

25X1A

MOSCOW SAM SITE C25-1

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-121-K
Coords: 55-34N 36-52E
Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)
First KEYHOLE coverage: [REDACTED]

which time the site was complete. At that time, a partial outline of an unidentified activity (Figure 6, Item 1) was observed at the north-northeast corner of the launch area. This unidentified activity appeared on photography of [REDACTED] to be a probable secured area containing a probable square structure and a possible round structure. No other changes were observed at the site between [REDACTED]

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at [REDACTED]

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

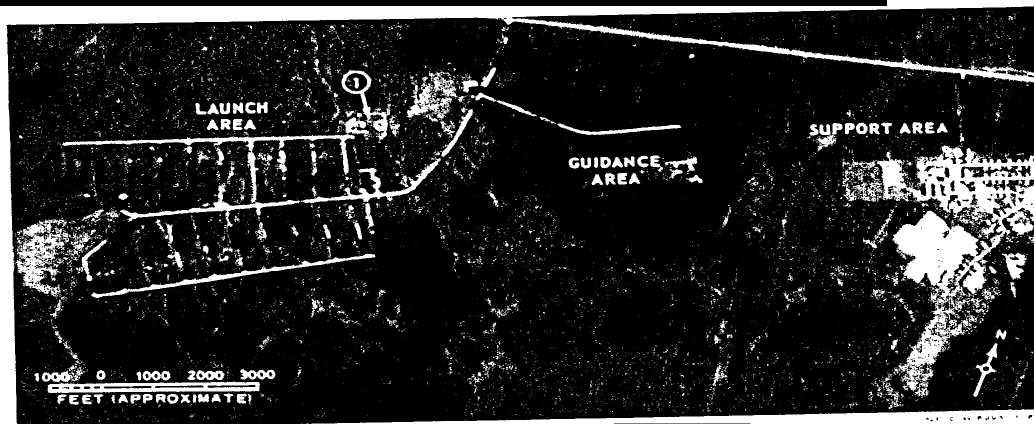
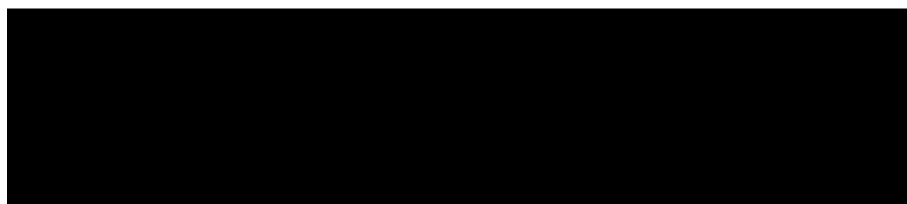


FIGURE 6. MOSCOW SAM SITE C25-1 [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC R-71/64

25X1A

MOSCOW SAM SITE C27-1

BE No: [REDACTED]

NPIC Target No: 0167-121-L

Coords: 55-41N 36-49E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 7).

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

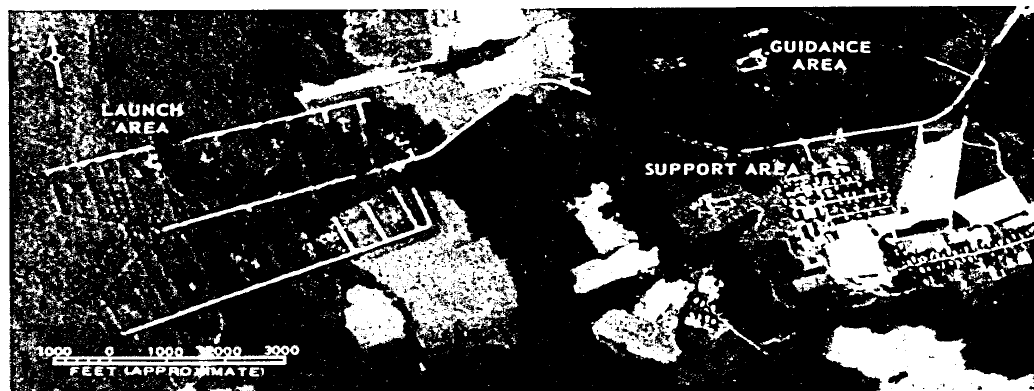
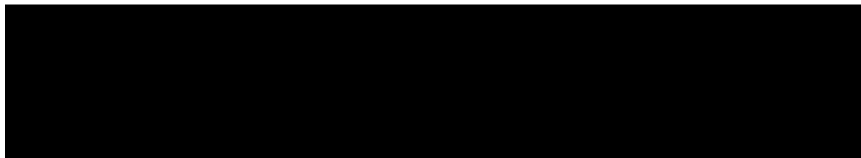


FIGURE 7. MOSCOW SAM SITE C27-1 [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC R-71 64

25X1D

25X1A

MOSCOW SAM SITE E19-1

25X1D

25X1D

BE No: [REDACTED]
NPIC Targe No: 0167-122-1

Coords: 55-00N 37-29E

Map Ref: DIA Sheet 0167-10HL, 2ded, Feb 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] Figure 8).

25X1D

25X1D

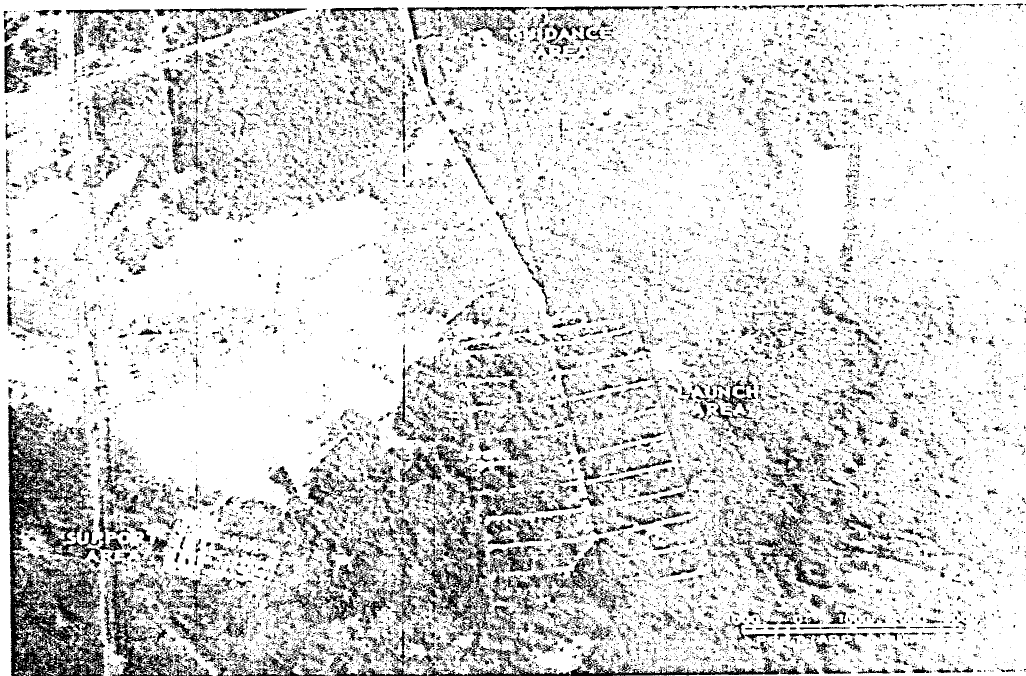


FIGURE 8. MOSCOW SAM SITE E19-1. [REDACTED]

25X1D

- 13 -

TOP SECRET RUFF

25X1D

TOP SECRET RUFF

NPIC/R-71/64

25X1A

MOSCOW SAM SITE E20-1

25X1D

NPIC Target No: 0167-122-J

Coords: 55-00N 37-14E

Map Ref: DIA Sheet 0167-10HL, 2ded, Feb 63 (S)

First KEYHOLE coverage: [REDACTED]

25X1D

25X1D

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 9).

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

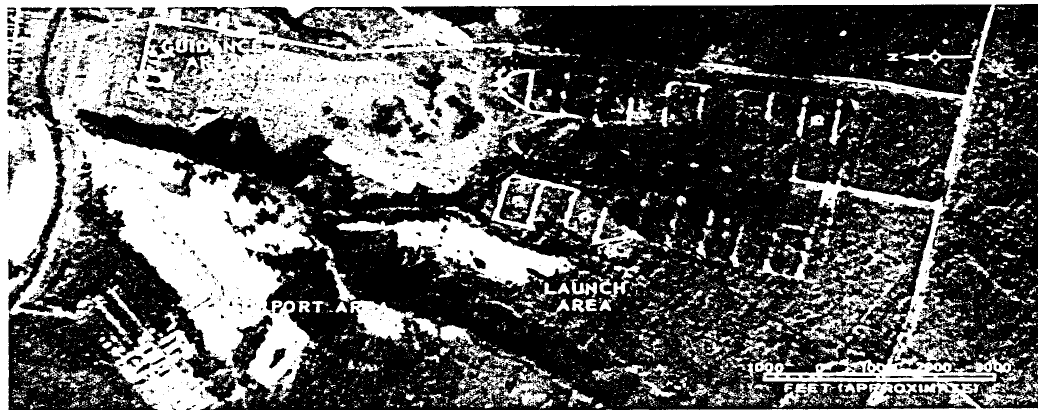


FIGURE 9. MOSCOW SAM SITE E20-1, [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-71/64

25X1A

MOSCOW SAM SITE E21-1

25X1D

BE No: [REDACTED]

NPIC Target No: 0167-122-K

Coords: 55-04N 37-01E

Map Ref: USAF Sheet 0167-9A, 1st ed, Jan 59 (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and semidarkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] Figure 10).

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

25X1D

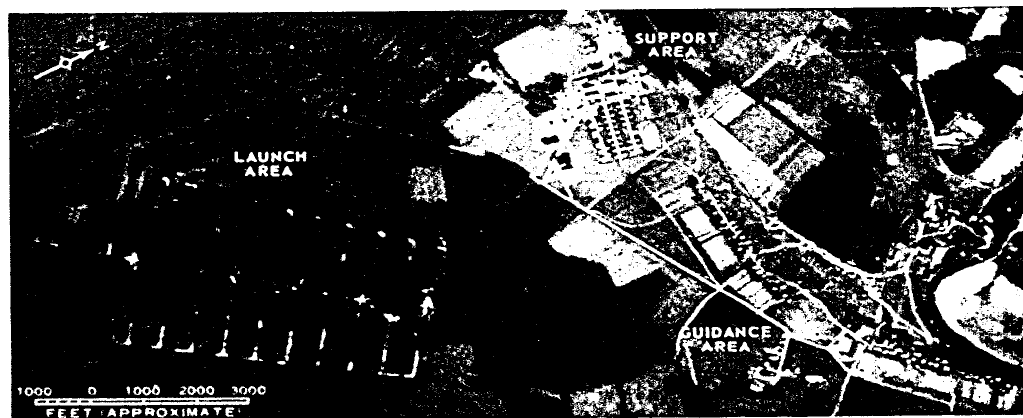
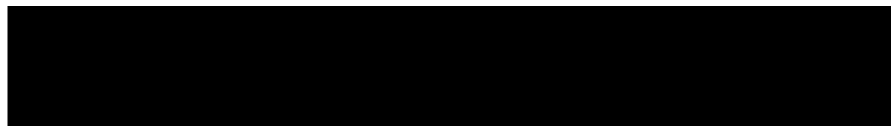


FIGURE 10. MOSCOW SAM SITE E21-1, [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-71/64

25X1A

MOSCOW SAM SITE E22-1

25X1D

BE No: [REDACTED]

NPIC Target No: 0167-122-L

Coords: 55-09N 36-50E

Map Ref: USAF Sheet 0167-9A, 1st ed, Jan 59 (SY

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 11).

25X1D

25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

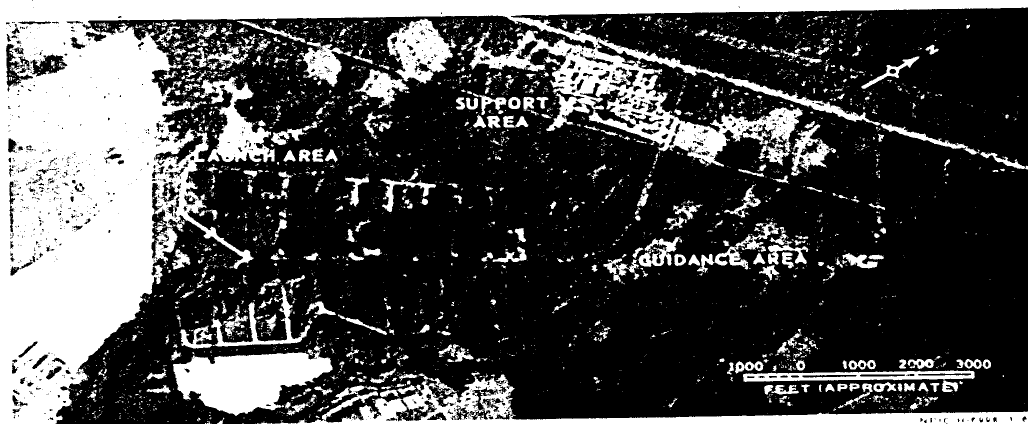
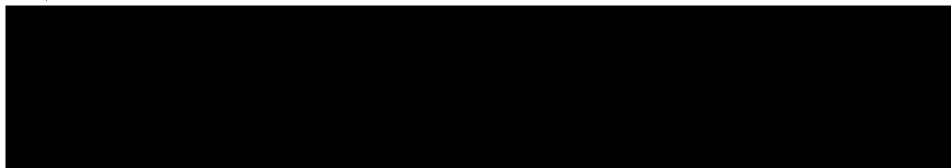


FIGURE 11. MOSCOW SAM SITE E22-1 [REDACTED]

25X1D

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TOP SECRET RUFF

TOP SECRET RUFF

NPIC R-71/64

25X1D

25X1D

25X1D

25X1D

25X1A

MOSCOW SAM SITE E23-1

BE No: [REDACTED]

Status then: undetermined because of haze and semidarkness

NPIC Target No: 0167-122-M

Coords: 55-14N 36-38E

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 12).

Map Ref: DLA Sheet 0167-4HLL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

25X1D



FIGURE 12. MOSCOW SAM SITE E23-1 [REDACTED]

25X1D

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TOP SECRET RUFF

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25X1D

Approved For Release 2001/08/20 : CIA-RDP78T05439A000300230071-9

TOP SECRET RUFF

NPIC R-71 64

25X1A

MOSCOW SAM SITE E24-1

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-122-N
Coords: 55-21N 36-29E
Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)
First KEYHOLE coverage: [REDACTED]

Status then: Identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at

which time the site was complete, but additions to the site facilities were observed. At that time three buildings, each 195 by 40 feet, (Figure 13, Item 1) had been constructed at the southeast corner of the support area. In [REDACTED] two additional 195-by-40-foot buildings had been constructed in the support area and construction activity was observed at the southeast corner of the launch area. On photography of [REDACTED], two buildings (Fig-

25X1D

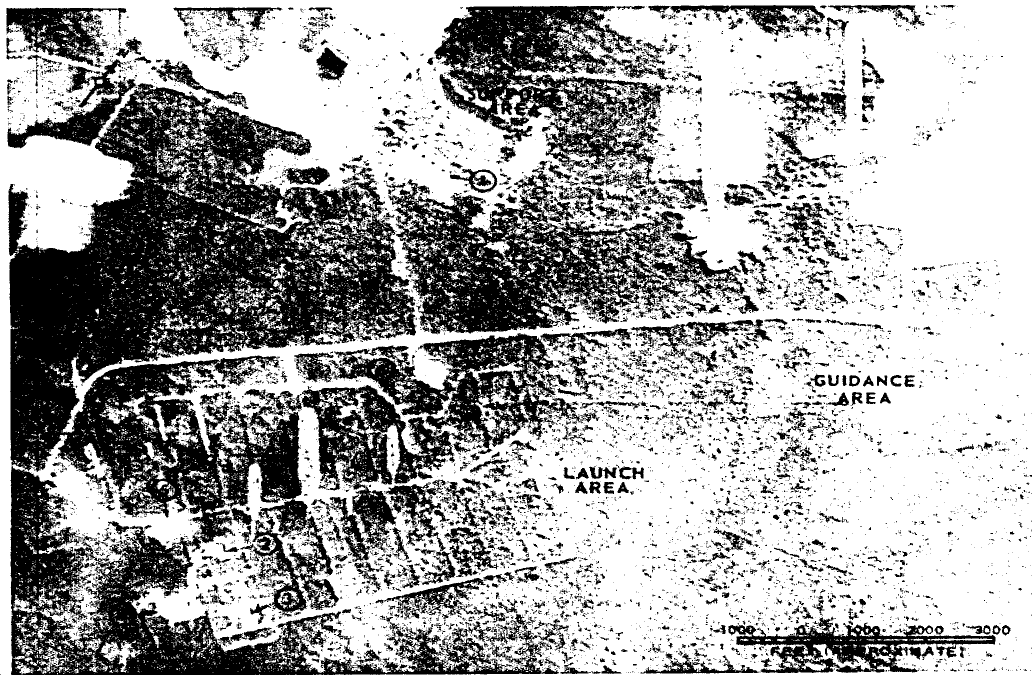


FIGURE 13. MOSCOW SAM SITE E24-1, [REDACTED]

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25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC R-71 64

25X1D

ure 13, Items 2 and 3), 100 by 100 feet, possibly AMM associated with a circular object on each roof, had been constructed and a 225-by 125-foot building (Item 4) was under construction. Also, at that time, an unidentified T-shaped ground pattern (Item 5) was observed 750 feet northwest of the rectangular building.

On photography of [REDACTED] the rectangular building, 225 by 125 feet, had been completed with an unidentified circular object on the rear of the roof. A cleared area (Item 6) located in the notch on the north side of the launch area was observed on [REDACTED] and had increased in size by [REDACTED]

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-71/64

25X1D

25X1D

25X1D

25X1A

MOSCOW SAM SITE E25-1

25X1D

25X1D

BE No: [REDACTED]

Status then: undetermined because of haze and darkness

NPIC Target No: 0167-122-D

Coords: 55-27N 36-24E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 14).

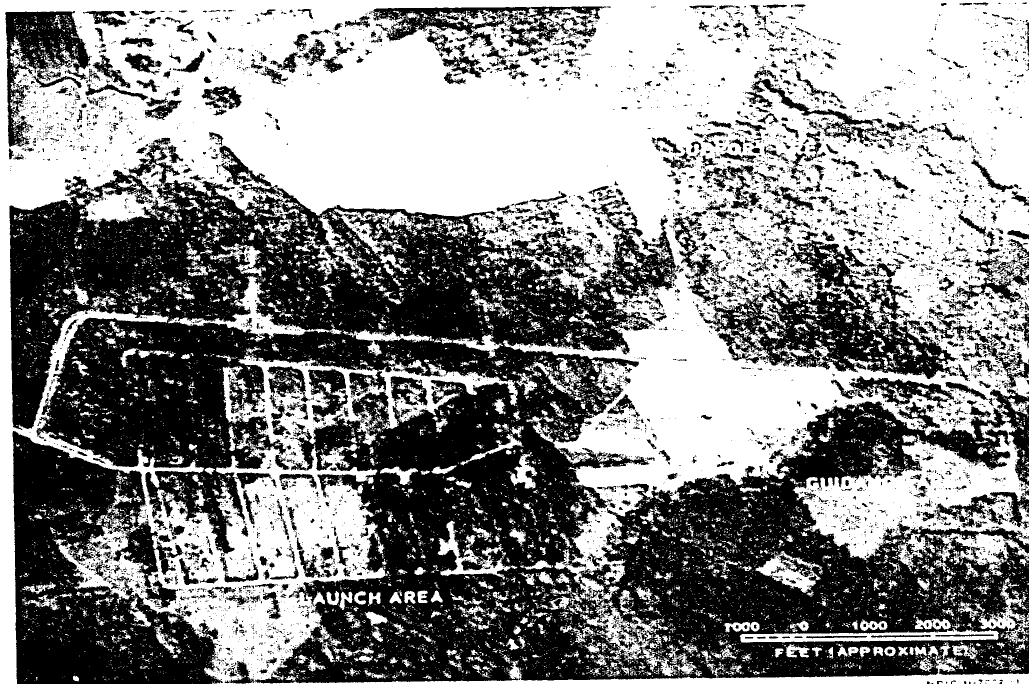


FIGURE 14. MOSCOW SAM SITE E25-1 [REDACTED]

25X1D

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TOP SECRET RUFF

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25X1D

Approved For Release 2001/08/20 : CIA-RDP78T05439A000300230071-9

TOP SECRET RUFF

NPIC/R-71/64

25X1A

MOSCOW SAM SITE E26-1

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-122-P
Coords: 55-36N 36-19E
Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)
First KEYHOLE coverage: [REDACTED]

Status then: identification only because of haze and darkness.

The first clear coverage of the site on KEYHOLE photography was in [REDACTED], at which time the site was complete. At that time, two areas of unidentified activity (Fig-

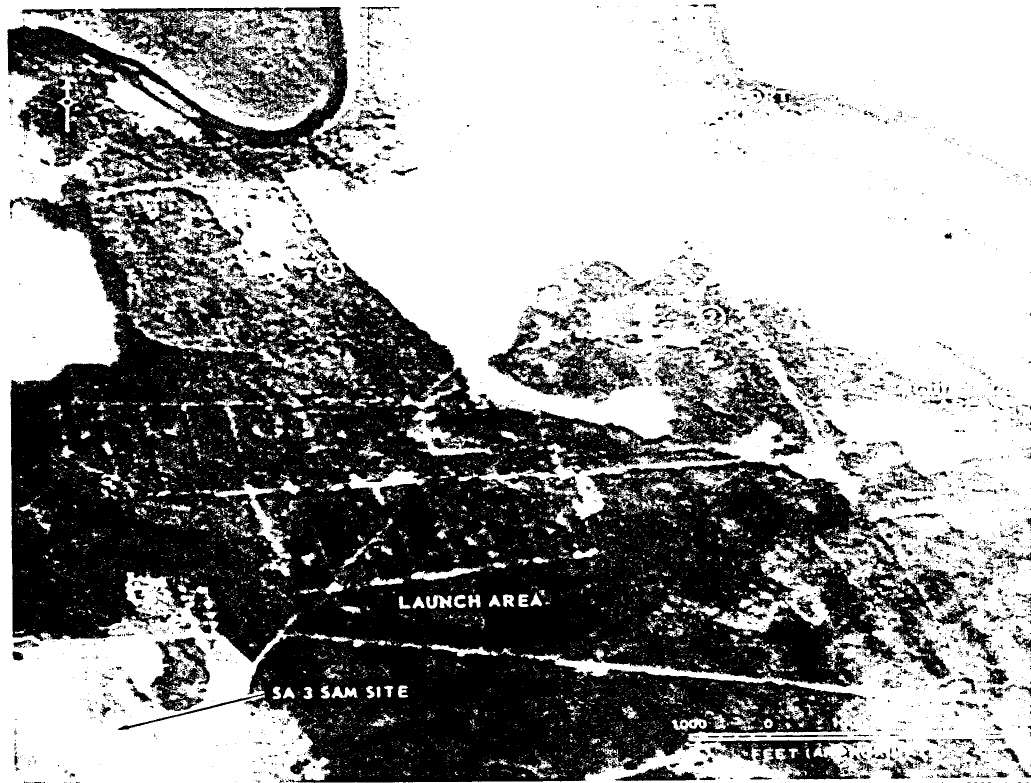


FIGURE 15. MOSCOW SAM SITE E26-1 [REDACTED]

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC R-71 64

25X1D

ure 15, Items 1 and 2) were observed. No change in this activity or the site was observed between [REDACTED]

The SA-3 SAM site E26-3 (BF [REDACTED]) of the G configuration was first observed

25X1D

25X1D

25X1D

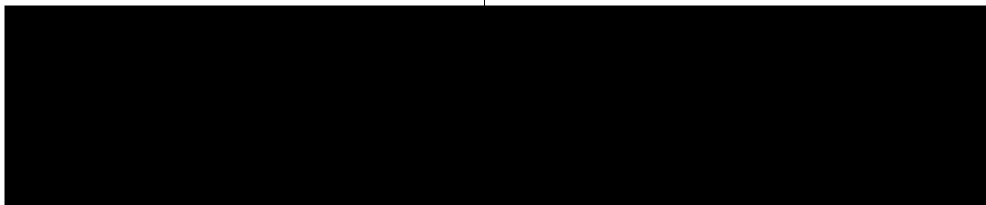
in [REDACTED] when ground scars, indicating construction, were noted just south of the SA-1 launch area. It was identified in [REDACTED] and appeared to be in the latter stages of construction in [REDACTED]

25X1A

25X1A

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-71/64

25X1A

MOSCOW SAM SITE E27-1

25X1D

25X1D

25X1D

BE No: [REDACTED]
NPIC Target No: 0167-122-Q
Coords: 55-44N 36-16E
Map Ref: DIA Sheet 0167-4HL, 2d ed. Mar 63 (S)
First KEYHOLE coverage: [REDACTED]

Status then: identification only because of haze and darkness

The first clear coverage of the site on

KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] and [REDACTED] (Figure 16).

The SA-3 SAM site E27-3 [REDACTED] of the G configuration was first observed, under construction, just west of the SA-1 launch area in [REDACTED] construction was continuing.

25X1A

25X1A

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

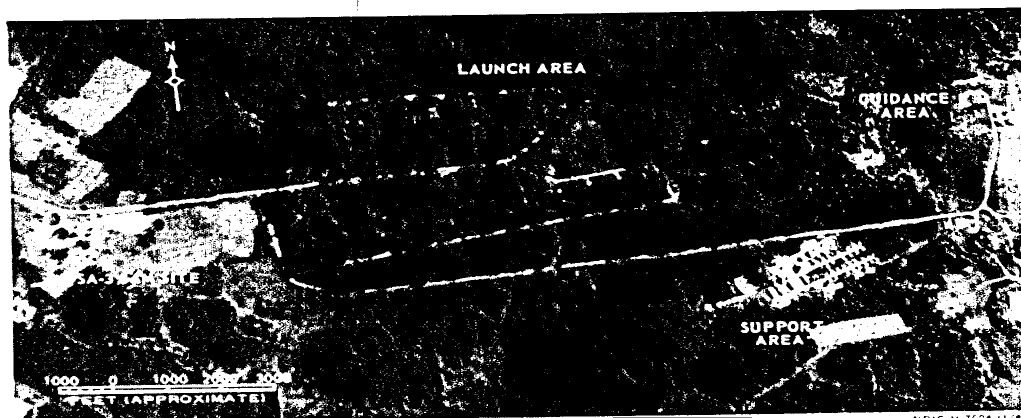
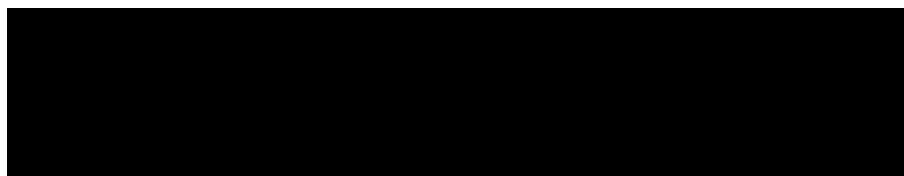


FIGURE 16. MOSCOW SAM SITE E27-1. [REDACTED]

NPIC 64-7004-11-641

- 29 -

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

NPIC/R-71/64

REFERENCES

REQUIREMENT

CIA. C-RR3-80375

NPIC PROJECT

JN-212 '62 (partial answer)

TOP SECRET RUFF